

RISK ASSESSMENT IN SUPERFUND

The following are selected program guidances and other key documents useful in the conduct of Superfund risk assessments (current as of July 1989). Unless otherwise noted, further information on these materials can be obtained by calling the Toxics Integration Branch in the Office of Emergency and Remedial Response at 202-475-9486.

"Superfund Public Health Evaluation Manual (SPHEM)" -- Office of Emergency and Remedial Response, (October 1986) EPA/540/1-86/060. The current program risk assessment guidance manual. Explains how to conduct a baseline site risk assessment, set preliminary remediation goals, and evaluate risks of remedial alternatives. Currently under revision; revised interim final expected by summer 1989. •

"EPA's Integrated Risk Information System (IRIS)" -- Office of Research and Development, (continuously updated). Agency's primary source of chemical-specific toxicity and risk assessment information. Includes narrative discussion of toxicity database quality and explains derivation of Reference Doses, cancer potency factors, other key dose response parameters. IRIS presents information that updates data originally presented in Exhibits A-4 and A-6 of the SPHEM (see above). Further information: IRIS Users Support, 513-569-7254.

"Health Effects Assessment Summary Tables (HEAST)" -- Office of Research and Development/Office of Emergency and Remedial Response, (updated quarterly). Since the IRIS chemical universe (while growing) is currently incomplete, the HEAST has been produced to serve as a "pointer" system to identify current literature and toxicity information on important non-IRIS chemicals. While HEAST data in some cases may not be "Agency-verified", the information is considered valuable for Superfund risk assessment purposes. Available from Superfund Docket, 202-382-3046.

"Exposure Factors Handbook" -- Office of Research and Development, (March 1989) EPA/600/8-89/043. Provides statistical data on the various factors used in assessing exposure; recommends specific default values to be used when site-specific data are not available for certain exposure scenarios. Further information: Exposure Methods Branch, 202-382-5988.

"OSWER Directive on Soil Ingestion Rates" -- Office of Solid Waste and Emergency Response, (January 1989) OSWER Directive #9850.4. Recommends soil ingestion rates for use in risk assessment when site-specific information is not available. Available from Darlene Williams, 202-475-9810.

ADMIN RECORD

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"Superfund Exposure Assessment Manual (SEAM)" -- Office of Emergency and Remedial Response, (April 1988) EPA/540/1-88/001. Provides a framework for the assessment of exposure to contaminants at or migrating from hazardous waste sites. Discusses modeling and monitoring.*

"Risk Assessment Guidance for Superfund -- Environmental Evaluation Manual, Interim Final (RAGS-EEM)" -- Office of Emergency and Remedial Response, (March 1989) EPA/540/1-89/001A. Provides program guidance to help remedial project managers and on-scene coordinators manage ecological assessment at Superfund sites.

"Superfund Risk Assessment Information Directory (RAID)" -- Office of Emergency and Remedial Response, (November 1986) EPA/540/1-86/061. Describes sources of information useful in conducting risk assessments. Currently under revision.*

*Available from Center for Environmental Research Information, 513-569-7562.

EPA 540/12-89/002 Risk Assessment Guidance for
Superfund: Human Health
Evaluation manual